Creating an Integrated Regional Model

Data to Policy



The Region

Two Discussion Periods

- Morning: the "big picture"
 - Touch on existing model shortcomings
 - Experiences, thoughts, hopes.
 - What is an integrated model, and how can we build one?
 - Some foundational issues.
 - Some goals.
- Afternoon: detailed discussion of key elements.



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The Four-step model

- We're all familiar with it
- Accuracy: moderate
- Ok on the big picture, sometimes poor on the small picture.
- Demographic sensitivity: limited
- Policy sensitivity: limited

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Some relevant DRCOG experience

- The TIP projects database
- The Linear Reference System
- The Land Use Allocation Model
- Air Quality Modeling (Mobile5 and Dispersion)
- The Policy Options Model

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What is an "integrated" model?

- Fundamentally different, or just a lot of little things?
- More than just the land use and transportation (and maybe air quality) models?
- Other possibilities:
 - The transportation planning/projects system
 - The land use planning/policy system
 - The geographic data warehouse
 - Policy support tools
 - What else?

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Some Foundational Issues

- Level of resolution of various variables.
- Model turn-around time.
- Scenario management and development.
- Resource requirements (staff, software, hardware, etc.)



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Some Foundational Issues II

- Data: define overall requirements
 - Data integration, including integration of network-based data, etc.
 - Improved input/output
 - Better management through the model process
 - Enhanced spatial-enablement of data
 - What else?



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Some Goals

- Timely (goal: full run in one month)
- Some questions must be answered immediately (POM)
- Better accuracy (where are the holes today?)
- Better sensitivity (think about policy questions that require it).
- Easier to operate (data integration, etc.)

